

## GLF Filtration System

### Overview

Process water pipework systems such as LTHW, CHW & Condenser water, installed in modern building service developments invariably contain numerous small-bore components that require the process water to be free of particulate contamination so that they work effectively.

To this end, the BSRIA Guide BG 29/2012 Pre-commission Cleaning of Pipework Systems recommends the use of side-stream filtration as being suitable for these types of installations and is strongly recommended for systems with a water content greater than 2,500 litres.

To meet this requirement, Goodwater have developed the **Cygnus GLF** range of skid mounted Stainless Steel filtration systems which are specifically designed for installation onto closed recirculating LTHW, CHW and Condenser water systems.

The use of the Cygnus GLF results in better system operational conditions within the process water system resulting in higher pumping efficiency and extended lifetime for all wetted system components.

The side-stream filtration process, aided by powerful magnets, effectively removes silt, sludge and other particulates including magnetic particles such as iron oxides and magnetite. This creates better operational conditions within the system resulting in higher pumping efficiency and extended lifetime for all wetted system components. Water treatment chemicals are also more effective in filtered water.

The system can also be fitted with an optional Tun-Dish assembly c/w air vent which allows the system to be used as a system dosing pot for the dosing of chemicals, eliminating the requirement to install a separate dosing pot.



As an alternative to the Cygnus GLF units, Goodwater also offer a lighter version – the **Cygnus GLF-LT**, which only includes the filter housing c/w Tun-Dish assembly.

## GLF Filtration System

### System Features

Stainless Steel Skid mounted system comprising:

- High efficiency side-stream recirculation pump.
- Polished 304 Stainless Steel bag filter housing c/w:
  - Inlet and outlet, pressure gauges. 0-10 bar {Glycerine filled}.
  - Stainless Steel basket and basket holder for the filter bag.
  - Stainless Steel encapsulated high strength magnetic bars for metal oxide capture.
  - Filter Bag ranging from 0.5 to 200 micron
  - Enhanced solids deposition due to reduced water velocity in the filter chamber.
  - Adjustable Stainless Steel feet.
  - Housing Closure uses M12 Stainless Steel wing bolts with ball joints and clips. Fully dismountable.
  - Closure c/w Tun Dish Assembly and air vent for chemical dosing.{Optional}
  - Air Release Assembly c/w "T" adaptor.
  - Ball valve purge and air bleed/filling valve.
  - Bottom drain connection (with plug): ½" BSP.
  - Can be configured for inlet and outlet on the same side. Max. Pressure: 10 bar
- In-line flow sensor to detect low flow/bag change.
- System Controller c/w status/alarm status indication and BMS connections.
- Fully pre-assembled and factory tested.

### Accessories

#### Thermal Insulation Jacket

The Cygnus GLF units can be supplied with a thermal insulation jacket which completely protects and insulates the filtration unit from heat losses in heating installations and from condensation in chilled water installations.

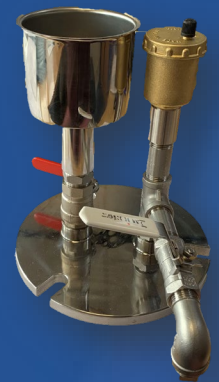


It is easily installed, without the need for tools, around the body and on the cover of the filter.

Health and safety is also improved with heating systems, with the jacket minimising exposure to hot surfaces and potential burns.

#### Optional Tun-Dish

The optional Tun-Dish and air vent assembly can be installed to the unit, which allows it to be used as a system dosing pot for the dosing of chemicals, thereby eliminating the requirement to install a separate dosing pot on the system.



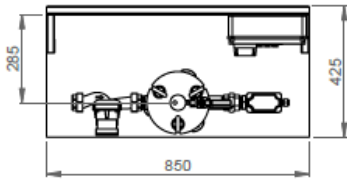
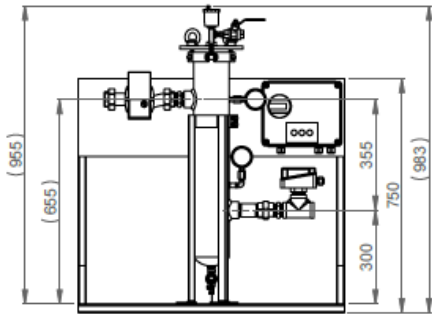
## GLF Filtration System

### GLF Unit Technical Details

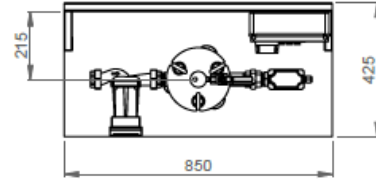
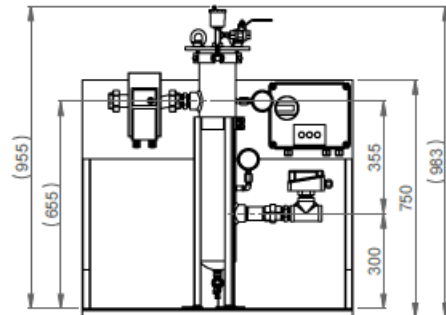
Goodwater Model	GLF-25-P	GLF-32-P	GLF-40-P	GLF-50-P
Inlet/ Outlet Connection	1 1/4" BSPF	1 1/4" BSPF	1 1/2" BSPF	2" BSPF
Recommended Flow Range (m3/hr)	1.0 - 4.0	4.0 - 8.0	8.0 - 11.0	8.0 - 13.0
Pressure Loss (Clean) {Bar}	0.15	0.15	0.21	0.21
Skid Size (mm)	850 x 425 x 955	850 x 425 x 955	925 x 475 x 1,055	925 x 500 x 1,345
Skid Size (mm) with Tun Dish	850 x 425 x 1,058	850 x 425 x 1,058	925 x 475 x 1,158	925 x 500 x 1,448
Housing Volume (L)	4	4	15	20
Pump Details	Yonas Para RS20/7.5-RKC W M	Yonas Para HF 30/10 9H	Yonas Para HF 30/12	Yonas Para HF 30/12
Electrical Supply	230Vac/50Hz	230Vac/50Hz	230Vac/50Hz	230Vac/50Hz
Power Consumption	75W 600mA	190W/1.3A	305W/1.33A	305W/1.33A
Relay Outputs Available	Power Failure Low Flow ONLY	Power Failure Low Flow Pump Failure	Power Failure Low Flow Pump Failure	Power Failure Low Flow Pump Failure

# GLF Filtration System

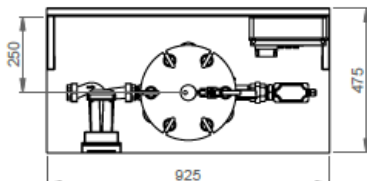
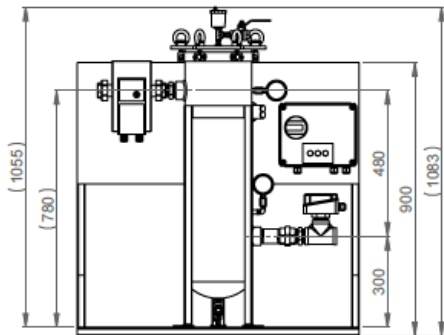
## GLF Unit - Standard



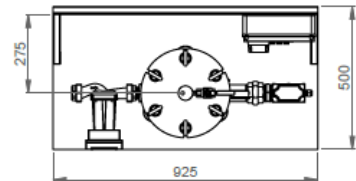
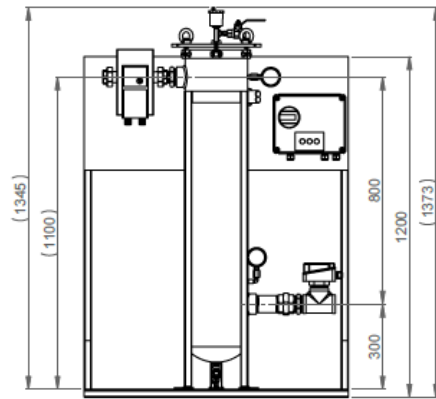
GLF 25-P



GLF 32-P



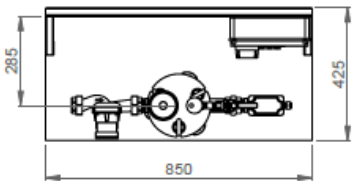
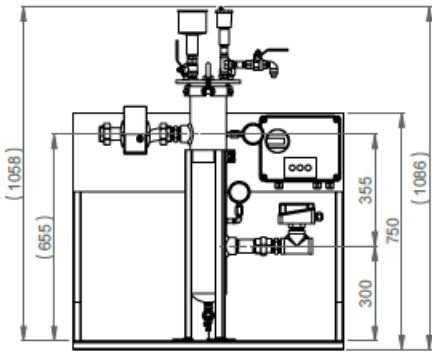
GLF 40-P



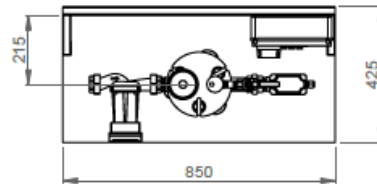
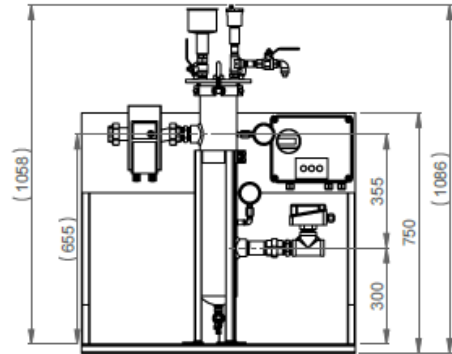
GLF 50-P

GLF Filtration System

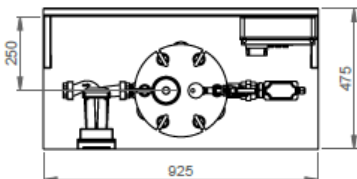
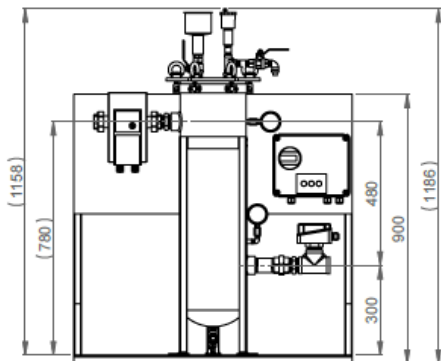
GLF Unit – with Tundish



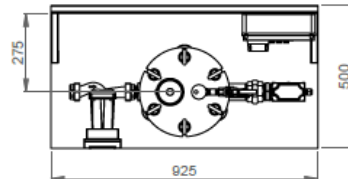
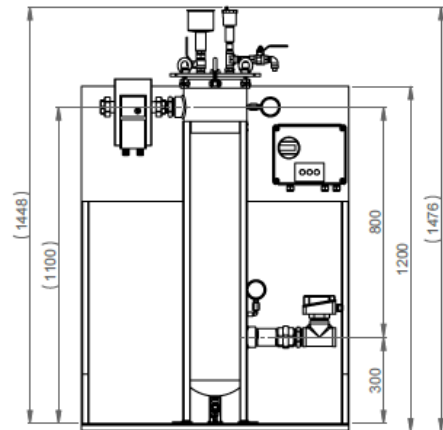
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GLF 32-P



GLF 40-P



GLF 50-P